

Amendments to the Claims

Please amend the claims of the present application as set forth below.

Claims 1 – 37 were originally filed.

Claims 1 – 37 are pending.

1. (original) A method for processing a permission set associated with a code assembly received from a resource location to control execution of the code assembly, the method comprising:

receiving the permission set including at least one permission associated with the code assembly;

receiving a permission request set in association with the code assembly;
and

filtering the permission set based on the permission request set to control execution of the code assembly.

2. (original) The method of claim 1 wherein the filtering operation comprises:

generating a permission grant set from a subset of the permission set, the subset specified by the permission request set.

3. (original) The method of claim 1 wherein the filtering operation

comprises:

computing a logical set operation on the permission set and the permission request set to generate a permission grant set.

4. (original) The method of claim 1 wherein the permission request set specifies a minimum permission condition and the filtering operation comprises:
preventing loading of the code assembly, if the permission set fails to satisfy the minimum permission condition.

5. (original) The method of claim 1 wherein the permission request set specifies a minimum permission condition and the filtering operation comprises:
preventing execution of the code assembly, if the permission set fails to satisfy the minimum permission condition.

6. (original) The method of claim 1 further comprising:
defining a code group collection based on a security policy specification,
the code group collection including one or more code groups;
receiving evidence associated with the code assembly;
evaluating membership of the code assembly in the one or more code groups, based on the evidence; and
generating the permission set based on the membership of the code

assembly in the one or more code groups.

7. (original) The method of claim 1 wherein the permission request set specifies a plurality of typed permission request sets, each typed permission request set specifying a distinct type of permission preference requested in association with the code assembly.

8. (original) The method of claim 1 wherein the permission request set specifies a minimum request set specifying a minimum set of permissions requested in association with the code assembly.

9. (original) The method of claim 8 wherein the filtering operation comprises:

filtering the permission set based on the minimum request set to generate a permission grant set, such that the permission grant set includes a subset of the permission set.

10. (original) The method of claim 8 further comprising:
preventing loading of the code assembly, if the minimum request set is not a subset of the permission set.

11. (original) The method of claim 8 further comprising:
preventing execution of the code assembly, if the minimum request set is
not a subset of the permission set.

12. (original) The method of claim 1 wherein the permission request set
specifies an optional request set specifying an optional set of permissions
requested in association with the code assembly.

13. (original) The method of claim 12 wherein the filtering operation
comprises filtering the permission set based on the optional request set to generate
a permission grant set; and further comprising:

executing a first level of code assembly functionality if the optional request
set is a subset of the permission grant set; and

executing a second level of code assembly functionality if the optional
request set is not a subset of the permission grant set.

14. (currently amended) The method of claim 1 wherein the permission
request set specifies a refuse request set specifying a set of one or more
permissions to be omitted from a permission grant set [[in]] associated with the
code assembly.

1 15. (original) The method of claim 14 wherein the filtering operation
2 comprises:

3 omitting the set of one or more permissions specified by the refuse request
4 set from the permission grant set.

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6 16 (original) The method of claim 1 wherein the permission request set
7 includes an optional request set specifying an optional set of permissions requested
8 in association with the code assembly and a minimum request set specifying a
9 minimum set of permissions requested in association with the code assembly, and
10 wherein the filtering operation comprises:

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12 computing a union of the optional request set and minimum request set to
13 provide a maximum request set; and

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15 computing an intersection of the maximum request set and the permission
16 set.

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18 17. (original) The method of claim 16 wherein the permission request
19 set further specifies a refuse request set specifying a set of one or more
20 permissions to be omitted from a permission grant set in associated with the code
21 assembly, and wherein the filtering operation further comprises:

22 subtracting the set of one or more permissions specified in the refuse
23 request set from the intersection of the maximum request set and the permission
24
25

1 set.

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3 18. (original) The method of claim 1 wherein the operation of receiving
4 a permission request set comprises:

5 receiving the permission request set and the code assembly in a single
6 network communication.
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9 19. (original) The method of claim 1 wherein the operation of receiving
10 a permission request set comprises:

11 retrieving the permission request set in a network communication distinct
12 from a network communication in which the code assembly is received.
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15 20. (original) A policy manager module for processing a permission set
16 associated with a code assembly received from a resource location to control
17 execution of the code assembly, the policy manager module comprising:

18 a filter receiving the permission set and a permission request set associated
19 with the code assembly and filtering the permission set based on the permission
20 request set to control execution of the code assembly.
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23 21. (original) The policy manager module of claim 20 further
24 comprising:
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1 a permission set generator receiving an evidence set and generating a
2 permission set in association with the code assembly, based on the evidence set.

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4 22. (original) The policy manager module of claim 20 wherein the filter
5 generates a permission grant set from a subset of the permission set specified by
6 the permission request set.

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9 23. (original) The policy manager module of claim 20 wherein the filter
10 computes a logical set operation on the permission set and the permission request
11 set to generate a permission grant set.

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13 24. (original) The policy manager module of claim 20 wherein the filter
14 prevents loading of the code assembly, if the permission set fails to satisfy the
15 minimum permission condition.
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18 25. (original) The policy manager module of claim 20 wherein the filter
19 prevents execution of the code assembly, if the permission set fails to satisfy the
20 minimum permission condition.
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23 26. (original) The policy manager module of claim 20 wherein the
24 permission request set specifies a plurality of typed permission request sets, each
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1 typed permission request set specifying a distinct type of permission preference
2 requested in association with the code assembly.

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4 27. (original) The policy manager module of claim 20 wherein the
5 permission request set specifies a minimum request set specifying a minimum set
6 of permissions requested in association with the code assembly.

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9 28. (original) The policy manager module of claim 20 wherein the
10 permission request set specifies an optional request set specifying an optional set
11 of permissions requested in association with the code assembly.

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13 29. (original) The policy manager module of claim 20 wherein the filter
14 generates a permission grant set omitting one or more permissions specified in a
15 refuse request set.

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18 30. (original) The policy manager module of claim 20 wherein the
19 permission request set specifies an optional request set specifying an optional set
20 of permissions requested in association with the code assembly and a minimum
21 request set specifying a minimum set of permissions requested in association with
22 the code assembly, and wherein the filtering operation comprises:

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24 computing a union of the optional request set and minimum request set to
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1 provide an maximum request set; and

2 computing an intersection of the maximum request set and the permission
3 set.

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5 31. (original) The policy manager module of claim 20 wherein the filter
6 generates a permission grant set based on an optional request set, the permission
7 grant set being associated with a first level of code assembly functionality if the
8 optional request set is a subset of the permission grant set and being associated
9 with a second level of code assembly functionality if the optional request set is not
10 a subset of the permission grant set.
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13 32. (original) The policy manager module of claim 20 further
14 comprising:
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16 a code group collection generator creating a code group collection based on
17 a security policy specification, the code group collection including one or more
18 code groups;

19 a membership evaluator determining membership of the code assembly in
20 the one or more code groups, based on evidence associated with the code
21 assembly; and
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23 a permission set generator creating the permission set based on the
24 membership of the code assembly in the one or more code groups.
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2 33. (original) A computer data signal embodied in a carrier wave by a
3 computing system and encoding a computer program for executing a computer
4 process processing a permission set associated with a code assembly received from
5 a resource location to control execution of the code assembly, the computer
6 process comprising:

7 receiving the permission set including at least one permission associated
8 with the code assembly;

9 receiving a permission request set in association with the code assembly;
10 and
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12 filtering the permission set based on the permission request set to control
13 execution of the code assembly.
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16 34. (original) A computer program storage medium readable by a
17 computer system and encoding a computer program for executing a computer
18 process processing a permission set associated with a code assembly received from
19 a resource location, the computer process comprising:

20 receiving the permission set including at least one permission associated
21 with the code assembly;

22 receiving a permission request set in association with the code assembly;
23 and
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1 filtering the permission set based on the permission request set to control
2 execution of the code assembly.

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4 35. (original) A computer program product encoding a computer
5 program for executing on a computer system a computer process processing a
6 permission set associated with a code assembly received from a resource location
7 to control execution of the code assembly, the computer process comprising:

8 defining a code group collection based on a security policy specification,
9 the code group collection including one or more code groups;

10 receiving evidence associated with the code assembly;

11 evaluating membership of the code assembly in the one or more code
12 groups, based on the evidence;

13 generating the permission set based on the membership of the code
14 assembly in the one or more code groups;

15 receiving the permission set including at least one permission associated
16 with the code assembly;

17 receiving a permission request set in association with the code assembly;

18 and
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20 computing a logical set operation on the permission set and the permission
21 request set to generate a permission grant set.
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1 36. (original) The computer program product of claim 35 wherein the
2 permission request set includes an optional request set specifying an optional set of
3 permissions requested in association with the code assembly and a minimum
4 request set specifying a minimum set of permissions requested in association with
5 the code assembly, and wherein the filtering operation comprises:

6 computing a union of the optional request set and minimum request set to
7 provide a maximum request set; and

8 computing an intersection of the maximum request set and the permission
9 set.
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12 37. (original) The computer program of claim 36 wherein the
13 permission request set further specifies a refuse request set specifying a set of one
14 or more permissions to be omitted from a permission grant set in associated with
15 the code assembly, and wherein the filtering operation further comprises:

16 subtracting the set of one or more permissions specified in the refuse
17 request set from the intersection of the maximum request set and the permission
18 set.
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